WHAT IS CLAIMED IS:

1. A compound of general formula VI

$$P - S - S - CH_2 - C - NHC (=0) R^2$$
 VI

in which P is selected from the group consisting of peptides, proteins and oligonucleotides; R¹ is hydrogen, lower alkyl or aryl; R² is a lipid-containing moiety comprising a lipid group; and R³ is -OH, a lipid-containing moiety comprising a lipid group or an amino acid chain comprising one or 2 amino acids and terminating in -CO₂H or -COR².

- 2. A compound according to claim 1, wherein R^1 is hydrogen, R^2 is a lipid group and R^3 is -OH.
- 3. A compound according to claim 1, wherein R¹ is hydrogen, R² is -CH₂CH₂CH(NH₂)CO₂H or -CH₂CH₂CH(NHCO-lipid)CO-lipid and R³ is -NHCH₂CO₂H or -NHCH₂CO-lipid in which at least one of R² and R³ comprises a lipid group.
- 4. A compound according to claim 1, wherein said lipid group is a hydrophobic substituent comprising about 4 to about 26 carbon atoms.
- 5. A compound according to claim 4, wherein said lipid group is a hydrophobic substituent comprising about 5 to about 19 carbon atoms.
- 6. A method for increasing absorption of a sulfhydryl-group containing compound selected from the group consisting of peptides, proteins and oligonucleotides into mammalian cells, said method comprising:

forming from the sulfhydryl-containing compound a compound of general formula VI

$$P - S - S - CH_2 - COR^3$$
 $= COR^3$
 $= NHC (=0) R^2$
VI

in which P is a moiety derived from the sulfhydryl-group containing compound selected from the group consisting of peptides, proteins and oligonucleotides; R^1 is hydrogen, lower alkyl or aryl; R^2 is a lipid-containing moiety; and R^3 is - OH, a lipid-containing moiety or an amino acid chain comprising one or 2

amino acids and terminating in -CO₂H or -COR²; and administering the compound of general formula VI to the cells.

- 7. A method according to claim 6, wherein R¹ is hydrogen, R² is a lipid group and R³ is -OH.
- 8. A method according to claim 6, wherein R¹ is hydrogen, R² is -CH₂CH₂CH(NH₂)CO₂H or -CH₂CH₂CH(NHCO-lipid)CO-lipid and R³ is -NHCH₂CO₂H or -NHCH₂CO-lipid in which at least one of R² and R³ comprises a lipid group.
- 9. A method for prolonging blood and tissue retention of a sulfhydryl-group containing compound selected from the group consisting of peptides, proteins and oligonucleotides into mammalian cells, said method comprising:

forming from the sulfhydryl-containing compound a compound of general formula VI

$$P - S - S - CH_2 - C - NHC (=0) R^2$$
 VI

in which P is selected from the group consisting of peptides, proteins and oligonucleotides; R¹ is hydrogen, lower alkyl or aryl; R² is a lipid-containing moiety; and R³ is -OH, a lipid-containing moiety or an amino acid chain comprising one or 2 amino acids and terminating in -CO₂H or -COR²; and administering the compound of general formula VI to the cells.

- 10. A method according to claim 9, wherein R¹ is hydrogen, R² is a lipid group and R³ is -OH.
- 11. A method according to claim 9, wherein R¹ is hydrogen, R² is -CH₂CH₂CH(NH₂)CO₂H or -CH₂CH₂CH(NHCO-lipid)CO-lipid and R³ is -NHCH₂CO₂H or -NHCH₂CO-lipid in which at least one of R² and R³ comprises a lipid group.
 - 12. A compound of general formula V

$$A - S - S - CH_2 - CR^1(NHCOR^2)C(=O)R^3$$
 V

in which A is an aromatic activating residue; R¹ is hydrogen, lower alkyl or aryl; R² is a lipid-containing moiety comprising a lipid group; and R³ is -OH, a lipid-containing moiety comprising a lipid group or an amino acid chain comprising

one or 2 amino acids and terminating in -CO₂H or -COR².

- 13. A compound according to claim 12, wherein A is 2-pyridyl or 4-nitrophenyl.
- 14. A compound according to claim 12, wherein R^1 is hydrogen, R^2 is a lipid group and R^3 is -OH.
- 15. A compound according to claim 12, wherein R¹ is hydrogen, R² is -CH₂CH₂CH(NH₂)CO₂H or -CH₂CH₂CH(NHCO-lipid)CO-lipid and R³ is -NHCH₂CO₂H or -NHCH₂CO-lipid in which at least one of R² and R³ comprises a lipid group.
 - 16. A method for a forming a compound of general formula VI, comprising: reacting a compound of general formula PSH, in which P is selected from the group consisting of peptides, proteins and oligonucleotides, with a compound of general formula V

$$A - S - S - CH_2 - CR^1(NHCOR^2)C(=O)R^3$$
 V

in which A is an aromatic activating residue; R¹ is hydrogen, lower alkyl or aryl; R² is a lipid-containing moiety comprising a lipid group; and R³ is -OH, a lipid-containing moiety comprising a lipid group or an amino acid chain comprising one or 2 amino acids and terminating in -CO₂H or -COR².

- 17. A method according to claim 16, wherein A is 2-pyridyl or 4-nitrophenyl.
- 18. A method according to claim 16, wherein R¹ is hydrogen, R² is a lipid group and R³ is -OH.
- 19. A method according to claim 16, wherein R^1 is hydrogen, R^2 is -CH₂CH₂CH(NH₂)CO₂H or -CH₂CH₂CH(NHCO-lipid)CO-lipid and R^3 is -NHCH₂CO₂H or
- -NHCH₂CO-lipid in which at least one of R² and R³ comprises a lipid group.
 - 20. A compound of general formula III

$$A - S - S - CH_2 - CR^1(NH_2)C(=O)R^{3'}$$
 III

in which R^{3'} is -OH or an amino acid chain comprising one or two amino acids and terminating in -CO₂H; A is an aromatic activating residue; and R¹ is hydrogen, lower alkyl or aryl.

- 21. A compound according to claim 20, wherein R¹ is hydrogen and R³ is -OH.
- 22. A compound according to claim 20, wherein R¹ is hydrogen and R³ is NHCH₂CO₂H.